

From: Li, Ruixiang
Sent: Tuesday, March 18, 2003 2:42 PM
To: STIC-Biotech/ChemLib
Subject: Sequence search of Application NO: 09/652,345

Please do a standard search on SEQ ID NO: 6 against the interference nucleic acid databases.

Thank you very much!

Ruixiang Li
GAU 1646
CM1 10E18
Mail Box 10D19
306-0282

RECEIVED
MAR 18 2003
STIC

POINT OF CONTACT:
PAUL SCHULWITZ
TECHNICAL INFO. SPECIALIST
CM1 6B06 TEL. (703) 305-1954

Searcher: _____
Phone: _____
Location: _____
Date Picked Up: 3/20
Date Completed: 3/28
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:
NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____

GenCore version 5.1.4_p5_4578
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OM protein - nucleic search, using frame_plus_p2n model

Run on: March 27, 2003, 18:23:43 ; Search time 108 Seconds
(without alignments)
874.611 Million cell updates/sec

Title: US-09-652-345-6

Perfect score: 543

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 574371 seqs, 425486471 residues

Total number of hits satisfying chosen parameters: 1148742

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

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3	538	99.1	3155	9	US-10-007-747-13
4	538	99.1	3155	9	US-10-038-937-13

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ALIGNMENTS

RESULT 1

US-09-917-800A-1727
; Sequence 1727, Application US/09917800A
; Patent No. US20020119462A1
; GENERAL INFORMATION:
; APPLICANT: Mendrick, Donna
; APPLICANT: Porter, Mark
; APPLICANT: Johnson, Kory
; APPLICANT: Castle, Arthur
; APPLICANT: Elashoff, Michael
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Molecular Toxicology Modeling
; FILE REFERENCE: 44921-5038-US
; CURRENT APPLICATION NUMBER: US/09/917,800A
; CURRENT FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/222,040
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 60/222,880
; PRIOR FILING DATE: 2000-11-02
; PRIOR APPLICATION NUMBER: US 60/290,029
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/290,645
; PRIOR FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: US 60/292,336
; PRIOR FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: US 60/295,798
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/297,457

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; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,884
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: US 60/303,459
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 1740
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1727
; LENGTH: 4213
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020119462A1 NM_017010
US-09-917-800A-1727

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Pred. No.: 2,62e-69 Length: 4213
Score: 543.00 Matches: 111
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

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QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 812 TTGCTGGAGGAAACGGAGTCCAGGACAGAGGAGTGTGAGTTCACCGAACCAG 871
QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60
Db 872 AATGTGACGGCTGCTGATGAGGCGCGGAACTGGAGGCGCGGTCATCATCTTCT 931
QY 61 AlaSerGluAspAspAlaAlaThrValTyrArgAlaAlaAlaMetLeuAsnMetThrGly 80
Db 932 GCACGAGGAGGACGCTGCCACAGTGTACCGGCGGCGGCGGCGGCGGCGGCG 991
QY 81 SerGlyTyrValTyrLeuValGlyGluArgGluLysValLeuGlnPheAsnMetThrGly 100
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Db 1052 CCTGATGCGATCATCGGACTTCAGTTCATCAAT 1084

RESULT 2
US-09-945-901-13
; Sequence 13, Application US/09945901
; Patent No. US20020161215A1
GENERAL INFORMATION:
APPLICANT: Daggett, Lorrie P.
Ellis, Steven B.
Liu, Chen W.
Lu, Chin-Chun
TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
STREET: 4250 Executive Square, 7th Floor
CITY: La Jolla
STATE: CA
COUNTRY: U.S.A.
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/945,901
; FILING DATE: 24-Jan-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/940,035
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 08/052,449
; FILING DATE: 20-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6362-9383E
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0062
; TELEFAX: 619-238-0062
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3155 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 262..3030
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-945-901-13

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Pred. No.: 9,46e-69 Length: 3155
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 9 Gaps: 0

US-09-652-345-6 (1-111) x US-09-945-901-13 (1-3155)
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QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 808 CTGCTGGAGGAGCGTCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 867
QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60
Db 868 AACGTGACGCGCTGCTGATGGAGGCGGAGAGCTGGAGGCGGCGGCTCATCTTCT 927
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QY 81 SerGlyTyrValTyrLeuValGlyGluArgGluLysValLeuGlnLeuIleAsn 111
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RESULT 3
US-10-007-747-13
; Sequence 13, Application US/10007747
; Patent No. US20020161193A1
GENERAL INFORMATION:
APPLICANT: Daggett, Lorrie P.
Ellis, Steven B.
Liu, Chen W.
Lu, Chin-Chun
TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR

```

NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Heller Ehrman White & McAuliffe
STREET: 4250 Executive Square, 7th Floor
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE: 07-Dec-2001

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/648,797
FILING DATE: 28-Aug-2000
APPLICATION NUMBER: US/08/940,086A
FILING DATE: 29-SEPT-97
APPLICATION NUMBER: US 08/231,193
FILING DATE: 20-APR-1994
APPLICATION NUMBER: US 08/052,449
FILING DATE: 20-APR-1993

ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 24735-9383C
TELEPHONE: (619) 450-8400
TELEFAX: (619) 450-8499

INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 3155 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: CDNA
FEATURE:

NAME/KEY: CDS
LOCATION: 262..3030
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-10-007-747-13

Alignment Scores:
Pred. No.: 9,46e-69 Length: 3155
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 9 Gaps: 0

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Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 808 CTGCTGGAGGACGGTGGTCCAGGACGAGAGGTCGTCAGTTTACCACGAGGACCAAG 867

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Qy 61 AlaSerGluAspAlaAlaThrValTyrArgAlaAlaMetLeuAsnMetThrGly 80
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RESULT 4
US-10-038-937-13
SEQUENCE 13, Application US/10038937
Publication No. US20030013866A1
GENERAL INFORMATION:
APPLICANT: Daggett, Lorrie P.
Lu, Chin-Chun

TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Heller Ehrman White & McAuliffe
STREET: 4250 Executive Square, 7th Floor
CITY: La Jolla
STATE: CA
COUNTRY: U.S.A.
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/038,937
FILING DATE: 18-Apr-2002
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/935,105
FILING DATE: 29-SEPT-97
APPLICATION NUMBER: US 08/231,193
FILING DATE: 20-APR-1994
APPLICATION NUMBER: US 08/052,449
FILING DATE: 20-APR-1993

ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 6362-9383D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-238-0999
TELEFAX: 619-238-0062

INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 3155 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: CDNA
FEATURE:

NAME/KEY: CDS
LOCATION: 262..3030
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-10-038-937-13

Alignment Scores:
Pred. No.: 9,46e-69 Length: 3155
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 9 Gaps: 0

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 QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60
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 QY 61 AlaSerGluAspAlaAlaThrValTyrArgAlaAlaMetLeuAsnMetThrGly 80
 Db 928 GCCAGCAGGACGATGCTGACCTGTATACCGCGAGCGCGGATCTGAACATGACGGGC 987
 QY 81 SerGlyTyrValTyrPleuValGluArgGluLeuSerGlyAsnAlaAlaArgTyrAla 100
 Db 988 TCCGGGTACGTGCTGCTGCGGAGCGGAGATCTCGGGGAAGCGCTGCGCTACGAC 1047
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 US-09-945-901-21
 ; Sequence 21, Application US/09945901
 ; Patent No. US20020161215A1
 GENERAL INFORMATION:
 ; APPLICANT: Daggett, Lorrie P.
 ; Ellis, Steven B.
 ; Liaw, Chen W.
 ; Lu, Chin-Chun
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
 ; SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
 NUMBER OF SEQUENCES: 63
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Heller Ehrman White & McAuliffe
 STREET: 4250 Executive Square, 7th Floor
 CITY: La Jolla
 STATE: CA
 COUNTRY: U.S.A.
 ZIP: 92037
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/945,901
 FILING DATE: 24-Jan-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/940,035
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US 08/052,449
 FILING DATE: 20-APR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Seidman, Stephanie
 REGISTRATION NUMBER: 33,779
 REFERENCE/DOCKET NUMBER: 6362-9383E
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-238-0999
 TELEFAX: 619-238-0082
 INFORMATION FOR SEQ ID NO: 21:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 3211 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: both
 TOPOLOGY: both
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 262..3192
 SEQUENCE DESCRIPTION: SEQ ID NO: 21:
 US-09-945-901-21

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 Query Match: 99.08% Indels: 0
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 Db 748 ATCATCTCTGCTGGTACGACGACACACGAGGCGCGCGGCTCAGAAACGCTGGAGACG 807
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 Db 928 GCCAGCAGGACGATGCTGACCTGTATACCGCGAGCGCGGATCTGAACATGACGGGC 987
 QY 81 SerGlyTyrValTyrPleuValGluArgGluLeuSerGlyAsnAlaAlaArgTyrAla 100
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 QY 101 ProAspGlyIleLeuGlyLeuGlnLeuIleAsn 111
 Db 1048 CCAGACGGCATCTCGGGCTGCAGCTCATCAAC 1080
 RESULT 6
 US-10-007-747-21
 ; Sequence 21, Application US/10007747
 ; Patent No. US20020161193A1
 GENERAL INFORMATION:
 ; APPLICANT: Daggett, Lorrie P.
 ; Ellis, Steven B.
 ; Liaw, Chen W.
 ; Lu, Chin-Chun
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
 ; SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
 NUMBER OF SEQUENCES: 63
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Heller Ehrman White & McAuliffe
 STREET: 4250 Executive Square, 7th Floor
 CITY: La Jolla
 STATE: CA
 COUNTRY: USA
 ZIP: 92037
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/007,747
 FILING DATE: 07-Dec-2001
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/648,797
 FILING DATE: 28-Aug-2000
 APPLICATION NUMBER: US/08/940,086A
 FILING DATE: 29-SEPT-97
 APPLICATION NUMBER: US 08/231,193
 FILING DATE: 20-APR-1994
 APPLICATION NUMBER: US 08/052,449
 FILING DATE: 20-APR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Seidman, Stephanie

```
;
;
;   REGISTRATION NUMBER: 33,779
;   REFERENCE/DOCKET NUMBER: 24735-9383C
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (619) 450-8400
;   TELEFAX: (619) 450-8499
;   INFORMATION FOR SEQ ID NO: 21:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 3211 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: both
;   TOPOLOGY: both
;   MOLECULE TYPE: CDNA
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: 262..3192
;   SEQUENCE DESCRIPTION: SEQ ID NO: 21:
S-10-007-747-21

Alignment Scores:
Pred. No.:      9,69e-69      Length:      3211
Score:          538.00      Matches:      109
Percent Similarity: 100.00%      Conservative: 2
Best Local Similarity: 98.20%      Mismatches: 0
Query Match:      99.08%      Indels:      0
DB:              9          Gaps:      0

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QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 808 CTGCTGGAGGAGCGTGTGATGAGGCGGAAAGAGCTGGAGCGCGGCTCATCTTTCT 927
QY 41 AsnValThrAlaLeuMetGluAlaArgGluLeuSerGlyAlaAlaArgValIleLeuSer 60
Db 868 AACGTGAGCGGCTGCTGCTGATGAGCGGAAAGAGCTGGAGCGCGGCTCATCTTTCT 927
QY 61 AlaSerGluAspAlaAlaThrValTyrArgAlaAlaAlaMetLeuAsnMetThrGly 80
Db 928 GCCAGCGAGGAGCATGCTGCCACTGTATACCGCGCAGCGCGATGCTGAACATGACGGGC 987
QY 81 SerGlyTyrValTrpLeuValGlyGluArgGluLeuSerGlyAsnAlaLeuArgTyrAla 100
Db 988 TCCGGGTACGTGTGCTGCTGGCGAGCGGAGATCTCGGGGAACGCCCTGCCTACGCC 1047
QY 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
Db 1048 CCAGACGGCATCTCGGGCTGCAGCTCATCAAC 1080

RESULT 7
US-10-038-937-21
; Sequence 21, Application US/10038937
; Publication No. US20030013866A1
; GENERAL INFORMATION:
; APPLICANT: Daggett, Lorrie P.
; Lu, Chin-Chun
; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
; SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Heller Ehrman White & McNuliffe
; STREET: 4250 Executive Square, 7th Floor
; CITY: La Jolla
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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;   SOFTWARE: PatentIn Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/10/038,937
;   FILING DATE: 18-Apr-2002
;   CLASSIFICATION: <Unknown>
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/935,105
;   FILING DATE: 29-SEPT-97
;   APPLICATION NUMBER: US 08/231,193
;   FILING DATE: 20-APR-1994
;   APPLICATION NUMBER: US 08/052,449
;   FILING DATE: 20-APR-1993
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Seidman, Stephanie
;   REGISTRATION NUMBER: 33,779
;   REFERENCE/DOCKET NUMBER: 6362-9383D
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 619-238-0999
;   TELEFAX: 619-238-0062
;   INFORMATION FOR SEQ ID NO: 21:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 3211 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: both
;   TOPOLOGY: both
;   MOLECULE TYPE: CDNA
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: 262..3192
;   SEQUENCE DESCRIPTION: SEQ ID NO: 21:
US-10-038-937-21

Alignment Scores:
Pred. No.:      9,69e-69      Length:      3211
Score:          538.00      Matches:      109
Percent Similarity: 100.00%      Conservative: 2
Best Local Similarity: 98.20%      Mismatches: 0
Query Match:      99.08%      Indels:      0
DB:              9          Gaps:      0

US-09-652-345-6 (1-111) x US-10-038-937-21 (1-3211)
QY 1 IleIleLeuValSerAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
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QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 808 CTGCTGGAGGAGCGTGTGATGAGGCGGAAAGAGCTGGAGCGCGGCTCATCTTTCT 927
QY 41 AsnValThrAlaLeuMetGluAlaArgGluLeuSerGlyAlaAlaArgValIleLeuSer 60
Db 868 AACGTGAGCGGCTGCTGCTGATGAGCGGAAAGAGCTGGAGCGCGGCTCATCTTTCT 927
QY 61 AlaSerGluAspAlaAlaThrValTyrArgAlaAlaAlaMetLeuAsnMetThrGly 80
Db 928 GCCAGCGAGGAGCATGCTGCCACTGTATACCGCGCAGCGCGATGCTGAACATGACGGGC 987
QY 81 SerGlyTyrValTrpLeuValGlyGluArgGluLeuSerGlyAsnAlaLeuArgTyrAla 100
Db 988 TCCGGGTACGTGTGCTGCTGGCGAGCGGAGATCTCGGGGAACGCCCTGCCTACGCC 1047
QY 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
Db 1048 CCAGACGGCATCTCGGGCTGCAGCTCATCAAC 1080

RESULT 8
US-09-945-901-19
; Sequence 19, Application US/09945901
; Patent No. US20020161215A1
; GENERAL INFORMATION:
; APPLICANT: Daggett, Lorrie P.
; Ellis, Steven B.
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Liaw, Chen W.
Lu, Chin-Chun
TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Heller Ehrman White & McAuliffe
STREET: 4250 Executive Square, 7th Floor
CITY: La Jolla
STATE: CA
COUNTRY: U.S.A.
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/09/945,901
FILING DATE: 24-Jan-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/940,035
FILING DATE: <Unknown>
APPLICATION NUMBER: US 08/052,449
FILING DATE: 20-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 6362-9383E
TELEPHONE: 619-238-0999
TELEFAX: 619-238-0062
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 3935 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 262..3030
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-09-945-901-19
Alignment Scores:
Pred. No.: 1,29e-68 Length: 3935
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 9 Gaps: 0
US-09-652-345-6 (1-111) x US-09-945-901-19 (1-3935)
QY 1 lletleLeuValSerAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
Db 748 ATCATCTGCTGTCAGCGAGCACCAGCGCGGCTCAGAACCTGGAGAG 807
QY 21 LeuLeuGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 808 CTGCTGGAGGAGCGTAGTCCAAAGCAGAGAGGTGCTGTCAGTTGCCAGGACCAAG 867
QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleIleLeuSer 60
Db 868 AACGTGAGCGCCCTGCTATGAGCGCAAGAGCTGGAGCGCCGGTTCATCTCTTCT 927
QY 61 AlaSerGluAspAspAlaAlaThrValTyrArgAlaAlaAlaMetLeuAsnMetThrGly 80
Db 928 GCCAGGAGGACGATGTGCCACTGTATACCGCGAGCGCGGATGCTGAACATGACGGGC 987
QY 81 SerGlyTyrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100

Db 988 TCCGGGTACTGTGGCTGGCGGAGAGATCTCGGGGAACGCCCTGCGCTAGGCC 1047
QY 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
Db 1048 CCAGACGGCATCTCGGCTGCAGCTCATCAAC 1080
RESULT 9
US-10-007-747-19
Sequence 19, Application US/10007747
Patent No. US20020161193A1
GENERAL INFORMATION:
APPLICANT: Daggett, Lorrie P.
Ellis, Steven B.
Liaw, Chen W.
Lu, Chin-Chun
TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Heller Ehrman White & McAuliffe
STREET: 4250 Executive Square, 7th Floor
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/10/007,747
FILING DATE: 07-Dec-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/648,797
FILING DATE: 28-Aug-2000
APPLICATION NUMBER: US/08/940,086A
FILING DATE: 29-SEPT-97
APPLICATION NUMBER: US 08/231,193
FILING DATE: 20-APR-1994
APPLICATION NUMBER: US 08/052,449
FILING DATE: 20-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 24735-9383C
TELEPHONE: (619) 450-8400
TELEFAX: (619) 450-8499
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 3935 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 262..3030
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-007-747-19
Alignment Scores:
Pred. No.: 1,29e-68 Length: 3935
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 9 Gaps: 0
US-09-652-345-6 (1-111) x US-10-007-747-19 (1-3935)

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QY 1 lletleLeuValSerAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
Db 748 ATCATCTGCTGCTGAGGACGACGAGGCGGCGGCTCAGAAACGCTGGAGACG 807

QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 808 CTGCTGGAGGACGTCAGGACGAGAGAGGTGCTGCAGTTTACCCAGGACCAAG 867

QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaAlaArgVallelleLeuSer 60
Db 868 AACGTGACGGCCCTGCTGATGAGGCGGAAAGAGTGGAGGCGCGGCTCATCTCTTCT 927

QY 61 AlaSerGluAspAspAlaThrValTyrArgAlaAlaMetLeuAsnMetThrGly 80
Db 928 GCCAGCGAGGACGATGCTATACCGCGACGCGCGATGCTGAACATGACGGGC 987

QY 81 SerGlyTyrValTyrLeuValGlyGluArgGluLeuSerGlyAsnAlaLeuArgTyrAla 100
Db 988 TCCGGGTACGTGCTGCTGCGGAGCGGAGATCTCGGGAAACGCCCTGCGCTAGGCC 1047

QY 101 ProAspGlyIlelleGlyLeuGlnLeuLeuAsn 111
Db 1048 CCAGACGGCATCTCGGGCTGCAGCTCATCAAC 1080

RESULT 10
US-10-038-937-19
; Sequence 19, Application US/10038937
; Publication No. US20030013866A1
; GENERAL INFORMATION:
; APPLICANT: Daggett, Lorrie P.
; Lu, Chin-Chun
; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
; SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Heller Ehrman White & McAuliffe
; STREET: 4250 Executive Square, 7th Floor
; CITY: La Jolla
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/038,937
; FILING DATE: 18-Apr-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/935,105
; FILING DATE: 29-SEPT-97
; APPLICATION NUMBER: US 08/231,193
; FILING DATE: 20-APR-1994
; APPLICATION NUMBER: US 08/052,449
; FILING DATE: 20-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6362-9383D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0999
; TELEFAX: 619-238-0062
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3935 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS

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; LOCATION: 262..3030
; SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-038-937-19

Alignment Scores:
Pred. No.: 1.29e-68 Length: 3935
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 98.08% Indels: 0
DB: 9 Gaps: 0

US-09-652-345-6 (1-111) x US-10-038-937-19 (1-3935)
QY 1 lletleLeuValSerAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
Db 748 ATCATCTGCTGCTGAGGACGACGAGGCGGCGGCTCAGAAACGCTGGAGACG 807

QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 808 CTGCTGGAGGACGTCAGTCCAAGCGACAGAGGTGCTGCAGTTTACCCAGGACCAAG 867

QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaAlaArgVallelleLeuSer 60
Db 868 AACGTGACGGCCCTGCTGATGAGGCGGAAAGAGTGGAGGCGCGGCTCATCTCTTCT 927

QY 61 AlaSerGluAspAspAlaThrValTyrArgAlaAlaMetLeuAsnMetThrGly 80
Db 928 GCCAGCGAGGACGATGCTGCACCTGTATACCGCGAGCGCGATGCTGAACATGACGGGC 987

QY 81 SerGlyTyrValTyrLeuValGlyGluArgGluLeuSerGlyAsnAlaLeuArgTyrAla 100
Db 988 TCCGGGTACGTGCTGCTGCGGAGCGGAGATCTCGGGAAACGCCCTGCGCTAGGCC 1047

QY 101 ProAspGlyIlelleGlyLeuGlnLeuLeuAsn 111
Db 1048 CCAGACGGCATCTCGGGCTGCAGCTCATCAAC 1080

RESULT 11
US-09-945-901-1
; Sequence 1, Application US/09945901
; Patent No. US20020161215A1
; GENERAL INFORMATION:
; APPLICANT: Daggett, Lorrie P.
; Ellis, Steven B.
; Liaw, Chen W.
; Lu, Chin-Chun
; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
; SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Heller Ehrman White & McAuliffe
; STREET: 4250 Executive Square, 7th Floor
; CITY: La Jolla
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/945,901
; FILING DATE: 24-Jan-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/940,035
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 08/052,449
; FILING DATE: 20-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie

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[illegible]

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GENERAL INFORMATION:
APPLICANT: Daggett, Lorrie P.
TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESSES:
ADDRESS: Heller Ehrman White & McAuliffe
STREET: 4250 Executive Square, 7th Floor
CITY: La Jolla
STATE: CA
COUNTRY: U.S.A.
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/038,937
FILING DATE: 18-APR-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/935,105
FILING DATE: 29-SEPT-97
APPLICATION NUMBER: US 08/231,193
FILING DATE: 20-APR-1994
APPLICATION NUMBER: US 08/052,449
FILING DATE: 20-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 6362-9383D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-238-0999
TELEFAX: 619-238-0062
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4298 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 262..3078
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-038-937-1

Alignment Scores:
Pred. No.: 1 45e-68 Length: 4298
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 9 Gaps: 0

US-09-652-345-6 (1-111) x US-10-038-937-1 (1-4298)
QY 1 IleIleLeuValSerAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
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QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
DB 808 CTGCTGGAGAGCGTGAGTCCAGGAGCAGAGAGTGTGTCAGTTTGACCCAGGACCAAG 867
QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleIleLeuSer 60
DB 868 AACGTGACCGCCCTGCTGATGAGGAGGAAAGAGCTGGAGCGCCGGTCAATCCCTTTCT 927
QY 61 AlaserGluAspAlaAlaThrValThrArgAlaAlaAlaMetLeuAsnMetThrGly 80

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DB 928 GCCAGCGAGGAGGATGCTGCACCTGTATACGCGCAGCGCGGATGCTGAACATGACGGCG 987
QY 81 SerGlyTyrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100
DB 988 TCCGGGTACGTGCTGCTGGCGGAGCGGAGATCTCGGGGAGCGCCCTGCGCTACGCC 1047
QY 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
DB 1048 CCAGACGGCATCCTCGGGCTGCAGCTCATCAAC 1080

RESULT 14
US-09-945-901-37
Sequence 37 Application US/09945901
Patent No. US20020161215A1
GENERAL INFORMATION:
APPLICANT: Daggett, Lorrie P.
Ellis, Steven B.
Liauw, Chen W.
Lu, Chin-Chun
TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Heller Ehrman White & McAuliffe
STREET: 4250 Executive Square, 7th Floor
CITY: La Jolla
STATE: CA
COUNTRY: U.S.A.
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/945,901
FILING DATE: 24-Jan-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/940,035
FILING DATE: <Unknown>
APPLICATION NUMBER: US 08/052,449
FILING DATE: 20-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 6362-9383E
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-238-0999
TELEFAX: 619-238-0062
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 3274 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 262..3255
SEQUENCE DESCRIPTION: SEQ ID NO: 37:
US-09-945-901-37

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Alignment Scores:
Pred. No.: 1e-65 Length: 3274
Score: 517.50 Matches: 109
Percent Similarity: 84.09% Conservative: 2
Best Local Similarity: 82.58% Mismatches: 21
Query Match: 95.30% Indels: 1
DB: 9 Gaps: 1

US-09-652-345-6 (1-111) x US-09-945-901-37 (1-3274)

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QY 1 IlelleLeuValSerAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
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QY 21 LeuLeuGluArgGluSer-----27
Db 808 CTGCTGGAGGAGCGTGAAGTCCCAAGAGTAAAAAAGGAAGTATGAAAAACCTCGACCAACTG 867
QY 28 -----LysAlaGluLysValLeuGlnPheAspProGlyThr 39
Db 868 TCCTATGACACAGCGCGGACCCCAAGCGAGAGAGTGTGCAGTTTGACCCAGGGAC 927
QY 40 LysAsnValThrAlaLeuMetGluAlaArgGluLeuGluAlaArgValIleLeu 59
Db 928 AAGAAGCTGACGCGCTCTGATGAGCGGAAGAGCTGGAGCGCGGGTCAATCATCTT 987
QY 60 SerAlaSerGluAspAlaAlaThrValTyrArgAlaAlaMetLeuAsnMetThr 79
Db 988 TCTGCCAGCGAGGAGTGTCCACTGTATACCGCGAGCGCGATGCTGAACATGACG 1047
QY 80 GlySerGlyTyrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyr 99
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Db 1108 GCCCAGAGCGATCTCGGGCTGCAGCTCATCAAC 1143
RESULT 15
US-10-007-747-37
; Sequence 37, Application US/10007747
; Patent No. US20020161193A1
; GENERAL INFORMATION:
; APPLICANT: Daggett, Lorrie P.
; Ellis, Steven B.
; Liaw, Chen W.
; Lu, Chin-Chun
; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
; SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Heller Ehrman White & McAuliffe
; STREET: 4250 Executive Square, 7th Floor
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/007,747
; FILING DATE: 07-Dec-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/648,797
; FILING DATE: 28-Aug-2000
; APPLICATION NUMBER: US/08/940,086A
; FILING DATE: 29-SEPT-97
; APPLICATION NUMBER: US 08/231,193
; FILING DATE: 20-APR-1994
; APPLICATION NUMBER: US 08/052,449
; FILING DATE: 20-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 24735-9383C
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 450-8400
; TELEFAX: (619) 450-8499
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 3274 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cdna
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 262...3255
; SEQUENCE DESCRIPTION: SEQ ID NO: 37:
US-10-007-747-37

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Alignment Scores:

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Score: 517.50 Matches: 109
Percent Similarity: 84.09% Conservative: 2
Best Local Similarity: 82.58% Mismatches: 0
Query Match: 95.30% Indels: 21
DB: 9 Gaps: 1

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US-09-652-345-6 (1-111) x US-10-007-747-37 (1-3274)

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QY 21 LeuLeuGluArgGluSer-----27
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QY 28 -----LysAlaGluLysValLeuGlnPheAspProGlyThr 39
Db 868 TCCTATGACACAGCGCGGACCCCAAGCGAGAGAGTGTGCAGTTTGACCCAGGGAC 927
QY 40 LysAsnValThrAlaLeuMetGluAlaArgGluLeuGluAlaArgValIleLeu 59
Db 928 AAGAAGCTGACGCGCTCTGATGAGCGGAAGAGCTGGAGCGCGGGTCAATCATCTT 987
QY 60 SerAlaSerGluAspAlaAlaThrValTyrArgAlaAlaMetLeuAsnMetThr 79
Db 988 TCTGCCAGCGAGGAGTGTCCACTGTATACCGCGAGCGCGATGCTGAACATGACG 1047
QY 80 GlySerGlyTyrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyr 99
Db 1048 GGCCTCCGGTACGTGTGGCTGTGGCGAGCGAGATCTCGGGGAACGCCCTGCGCTAC 1107
QY 100 AlaProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
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Search completed: March 27, 2003, 19:15:37
Job time : 115 secs

GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: March 27, 2003, 18:14:48 ; Search time 68 Seconds
(without alignments)
500.605 Million cell updates/sec

Title: US-09-652-345-6

Perfect score: 543

Sequence: 1 ILLVSDHDEGRAQKRLET.....ISGNALRYAPDGIIGIQLIN 111

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters: -DEV-xlp

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-DB=Issued_Patents_NA -QFMT=fastap -SUFFIX=p2n.rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blotum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR_SCORE=ptc -THR_MAX=100 -THR_MIN=0 -ALIGN=15
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-NO_XLPXY -NO_WMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued_Patents_NA.*

1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
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5: /cgn2_6/ptodata/1/ina/ECTUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	540	99.4	2760	1 US-08-026-138E-18	Sequence 18, Appl
2	540	99.4	2760	1 US-08-026-138E-19	Sequence 19, Appl
3	538	99.1	3155	2 US-08-231-193A-13	Sequence 13, Appl
4	538	99.1	3155	2 US-08-486-273A-13	Sequence 13, Appl
5	538	99.1	3155	3 US-08-480-474-13	Sequence 13, Appl
6	538	99.1	3155	3 US-08-940-086A-13	Sequence 13, Appl
7	538	99.1	3155	3 US-08-940-035A-13	Sequence 13, Appl
8	538	99.1	3155	4 US-08-935-105A-13	Sequence 13, Appl
9	538	99.1	3155	4 US-09-648-797-13	Sequence 13, Appl
10	538	99.1	3211	2 US-08-231-193A-21	Sequence 21, Appl
11	538	99.1	3211	2 US-08-486-273A-21	Sequence 21, Appl
12	538	99.1	3211	3 US-08-480-474-21	Sequence 21, Appl

13	538	99.1	3211	3 US-08-940-086A-21	Sequence 21, Appl
14	538	99.1	3211	4 US-08-940-035A-21	Sequence 21, Appl
15	538	99.1	3211	4 US-08-935-105A-21	Sequence 21, Appl
16	538	99.1	3211	4 US-09-648-797-21	Sequence 19, Appl
17	538	99.1	3935	2 US-08-231-193A-19	Sequence 19, Appl
18	538	99.1	3935	2 US-08-486-273A-19	Sequence 19, Appl
19	538	99.1	3935	3 US-08-480-474-19	Sequence 19, Appl
20	538	99.1	3935	3 US-08-940-086A-19	Sequence 19, Appl
21	538	99.1	3935	4 US-08-940-035A-19	Sequence 19, Appl
22	538	99.1	3935	4 US-08-935-105A-19	Sequence 19, Appl
23	538	99.1	3935	4 US-09-648-797-19	Sequence 19, Appl
24	538	99.1	4298	2 US-08-231-193A-1	Sequence 1, Appl
25	538	99.1	4298	2 US-08-486-273A-1	Sequence 1, Appl
26	538	99.1	4298	3 US-08-480-474-1	Sequence 1, Appl
27	538	99.1	4298	3 US-08-940-086A-1	Sequence 1, Appl
28	538	99.1	4298	4 US-08-940-035A-1	Sequence 1, Appl
29	538	99.1	4298	4 US-08-935-105A-1	Sequence 1, Appl
30	538	99.1	4298	4 US-09-648-797-1	Sequence 1, Appl
31	538	99.1	4659	4 US-08-264-578-10	Sequence 10, Appl
32	532	98.0	2621	3 US-08-436-332B-1	Sequence 1, Appl
33	532	98.0	2727	3 US-08-436-332B-13	Sequence 13, Appl
34	532	98.0	2835	3 US-08-436-332B-12	Sequence 12, Appl
35	532	98.0	2916	3 US-08-436-332B-11	Sequence 11, Appl
36	517.5	95.3	3274	2 US-08-231-193A-37	Sequence 37, Appl
37	517.5	95.3	3274	2 US-08-486-273A-37	Sequence 37, Appl
38	517.5	95.3	3274	3 US-08-480-474-37	Sequence 37, Appl
39	517.5	95.3	3274	3 US-08-940-086A-37	Sequence 37, Appl
40	517.5	95.3	3274	4 US-08-940-035A-37	Sequence 37, Appl
41	517.5	95.3	3274	4 US-09-648-797-37	Sequence 37, Appl
42	517.5	95.3	3274	4 US-08-231-193A-35	Sequence 35, Appl
43	517.5	95.3	3998	2 US-08-486-273A-35	Sequence 35, Appl
44	517.5	95.3	3998	2 US-08-480-474-35	Sequence 35, Appl
45	517.5	95.3	3998	3 US-08-480-474-35	Sequence 35, Appl

ALIGNMENTS

RESULT 1

US-08-026-138E-18
; Sequence 18, Application US/08026138E
; Patent No. 5502166
; GENERAL INFORMATION:
; APPLICANT: Masayoshi MISHINA
; TITLE OF INVENTION: NOVEL PROTEINS AND GENES CODING THE SAME
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nishiohata Residence 1-107
; STREET: 5214, Nishiohata-machi
; CITY: Niigata-shi
; STATE: Niigata-ken
; COUNTRY: JAPAN
; ZIP: 951
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS v.5
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/026,138E
; FILING DATE: 26-FEB-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 39563/1992
; FILING DATE: 26-FEB-1992
; APPLICATION NUMBER: JP 173155/1992
; FILING DATE: 30-JUN-1992
; APPLICATION NUMBER: JP 215017/1992
; FILING DATE: 12-AUG-1992
; APPLICATION NUMBER: JP 303878/1992
; FILING DATE: 13-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Hamburg, C.Bruce
; REGISTRATION NUMBER: 22,389
; REFERENCE/DOCKET NUMBER: F-4551

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; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 986-2340
; TELEFAX: (212) 953-7733
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2760 nucleic acids
; TYPE: nucleic acid
; STRANDEDNESS: double strand
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: mouse
; TISSUE TYPE: brain
; PUBLICATION INFORMATION:
; AUTHORS: Masayoshi MISHINA
; TITLE: NOVEL PROTEINS AND GENES CODING THE SAME
; RELEVANT RESIDUES IN SEQ ID NO: 18: FROM 1 TO 2760
US-08-026-138E-18

Alignment Scores:
Pred. No.: 1
Score: 1.68E-64
Length: 2760
Percent Similarity: 540.00
Matches: 110
Best Local Similarity: 100.00%
Conservative: 1
Query Match: 99.10%
Mismatch: 0
Indels: 0
Gaps: 0
DB: 1

US-09-652-345-6 (1-111) x US-08-026-138E-18 (1-2760)
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Db 433 ATCATCTCTGCTGTCACGATCACACAGAGCGCGGACGCGAGCGCTGGAGAG 492
QY 21 LeuLeuGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 493 TTGCTGGAGAGCGTGCTGCTCAGGCGAGAGAGTGCTGCTGAGTTTGACCCAGAACCAAG 552
QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60
Db 553 AATGTGACGGCTCTGCTGATGGAAGCCGCGGACCTGGAAGCCCGGTGCATCTCTTCT 612
QY 61 AlaSerGluAspAlaIleThrValThrArgAlaAlaAlaMetLeuAsnMetThrGly 80
Db 613 GCAAGCGAGGAGCAGCTCCACCGCTATACCGCAGCGCGATGCTGAACATGACTGCG 672
QY 81 SerGlyThrValTrpLeuValGluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100
Db 673 TCTGGGTAGTGTGGCTCTGCGGAGCGGAGATCTCTGGGAATGCCCTGCGCTACGCT 732
QY 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
Db 733 CCTGACGGCATCATCGGACTTCAGCTAATCAAC 765

RESULT 2
US-08-026-138E-19
; Sequence 19, Application US/08026138E
; Patent No. 5502166
; GENERAL INFORMATION:
; APPLICANT: Masayoshi MISHINA
; TITLE OF INVENTION: NOVEL PROTEINS AND GENES CODING THE SAME
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nishiohata Residence 1-107
; STREET: 5214, Nishiohata-machi
; CITY: Niigata-shi
; STATE: Niigata-ken
; COUNTRY: JAPAN
; ZIP: 951
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS v.5
; SOFTWARE: Word Perfect 5.1

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: GENERAL INFORMATION:
: APPLICANT: Daggett, Lorrie P.
: APPLICANT: Ellis, Steven B.
: APPLICANT: Liaw, Chen W.
: APPLICANT: Lu, Chin-Chun
: TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
: TITLE OF INVENTION: SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
: NUMBER OF SEQUENCES: 63
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Brown, Martin, Haller & McClain
: STREET: 1660 Union Street
: CITY: San Diego
: STATE: CA
: COUNTRY: U.S.A.
: ZIP: 92101-2926
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/231,193A
: FILING DATE: 20-APR-1994
: CLASSIFICATION: 536
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/052,459
: FILING DATE: 20-APR-1993
: CLASSIFICATION: 536
: ATTORNEY/AGENT INFORMATION:
: NAME: Seidman, Stephanie
: REGISTRATION NUMBER: 33,779
: REFERENCE/DOCKET NUMBER: 6362-9383
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 619-238-0999
: TELEFAX: 619-238-0062
: INFORMATION FOR SEQ ID NO: 13:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 3155 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: both
: TOPOLOGY: both
: MOLECULE TYPE: CDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 262..3030
:
: US-08-231-193A-13

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Alignment Scores:			
Pred. No.:	3,816-64	Length:	3155
Score:	58.00	Matches:	109
Percent Similarity:	90.00%	Conservative:	2
Best Local Similarity:	98.20%	Mismatches:	0
Query Match:	99.08%	Indels:	0
DB:	2	Gaps:	0
US-09-652-345-6 (1-111) x US-08-231-193A-13 (1-3155)			

Qy	1	IleIleLeuLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr	20
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Qy	21	LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys	40
Db	808	CTGCTGGAGGAGCGTGAGTCCAGGCGAGAGAGGTGCTCAGTTTCACCCAGGGACCAAG	867
Qy	41	AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuLeuSer	60
Db	868	AACGTGACGCCCTGCTGTATGGAGGCGAAGAGCTGGAGCCCGGGTCATCATCTTCT	927
Qy	61	AlaSerGluAspAspAlaAlaThrValTyrArgAlaAlaAlaMetLeuAsnMetThrGly	80
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Qy 81 SerGlyTyrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100
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Qy 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
Db 1048 CCAGACGGCATCTCGGGCTGCAGCTCATCAAC 1080

RESULT 4
US-08-486-273A-13
; Sequence 13, Application US/08486273A
; Patent No. 5985586
; GENERAL INFORMATION:
; APPLICANT: Daggett, Lorrie P.
; APPLICANT: Ellis, Steven B.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lu, Chin-Chun
; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, DNA
; TITLE OF INVENTION: ENCODING SAME AND USES THEREFOR
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Brown, Martin, Haller & McClain
; STREET: 1660 Union Street
; CITY: San Diego
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92101-2926
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,273A
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/231,193
; FILING DATE: 20-APR-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6362-9383B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0999
; TELEFAX: 619-238-0062
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3155 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 262..3030
US-08-486-273A-13

Alignment Scores:
Pred. No.: 3.81e-64 Length: 3155
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 2 Gaps: 0

US-09-652-345-6 (1-111) x US-08-486-273A-13 (1-3155)

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; APPLICATION NUMBER: US 08/052,449
; FILING DATE: 20-APR-1993
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6362-9383E
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0999
; TELEFAX: 619-238-0062
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3155 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 262..3030
; US-08-940-035A-13

Alignment Scores:
Pred. No.: 3,81e-64 Length: 3155
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservatives: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 4 Gaps: 0

US-09-652-345-6 (1-111) x US-08-940-035A-13 (1-3155)

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DB 748 ATCATCTGCTGGTCAGGACGACACAGAGCGCGCGCTCAGAACGCTTGAGAGC 807
QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
DB 808 CTGCTGGAGGAGCGTGAGTCCAGGACAGAGAAGTGCTGTGAGTTTGACCCAGGACCAAG 867
QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleIleLeuSer 60
DB 868 AACGTGACGGCCCTGCTGATGGAGCGGAAAGAGCTGGAGCGCCGGGTGCATCCTCTTCT 927
QY 61 AlaSerGluAspAlaAlaThrValTyrArgAlaAlaAlaMetLeuAsnMetThrGly 80
DB 928 GCCACGACGAGGACGATGTGCCACATGTATACCGCGACGCCGCGATGCTGAACATGACGGGC 987
QY 81 SerGlyTyrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100
DB 988 TCCGGGTACGTGTGGCTGGTCGCGAGCGCGAGATCTCGGGGAACGCCCTCGCTACGCC 1047
QY 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
DB 1048 CCACACGCGATCCTCCGGGCTCGAGCTCATCAAC 1080

RESULT 8
US-08-935-105A-13
; Sequence 13, Application US/08935105A
; Patent No. 6376660
; GENERAL INFORMATION:
; APPLICANT: Daggett, Lorrie P.
; APPLICANT: Lu, Chin-Chun
; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
; TITLE OF INVENTION: SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Heller Ehrman White & McAuliffe
; STREET: 4250 Executive Square, 7th Floor
; CITY: La Jolla
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92037

```


APPLICANT: Daggett, Lorrie P.
 Ellis, Steven B.
 Liaw, Chen W.
 Lu, Chin-Chun
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
 NUMBER OF SEQUENCES: 63
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Heller Ehrman White & McAuliffe
 STREET: 4250 Executive Square, 7th Floor
 CITY: La Jolla
 STATE: CA
 COUNTRY: USA
 ZIP: 92037
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/648,797
 FILING DATE: 28-Aug-2000
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/940,086A
 FILING DATE: 29-SEPT-97
 APPLICATION NUMBER: US 08/231,193
 FILING DATE: 20-APR-1994
 APPLICATION NUMBER: US 08/052,449
 FILING DATE: 20-APR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Seidman, Stephanie
 REGISTRATION NUMBER: 33,779
 REFERENCE/DOC#ET NUMBER: 24735-9383C

TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 450-8400
TELEFAX: (619) 450-8499
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 3155 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: cdna
FEATURE:
NAME/KEY: CDS
LOCATION: 262..3030
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
-797-13

TOPOLOGY: BOTH
 MOLECULE TYPE: CDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 262..3030
 SEQUENCE DESCRIPTION: SEQ ID NO: 13:
 -797-13

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;
; NAME/KEY: CDS
; LOCATION: 262..3030
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-648-797-13

Alignment Scores:
Pred. No.: 3 81e-64 Length: 3155
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 4 Gaps: 0

US-09-652-345-6 (1-111) x US-09-648-797-13 (1-3155)

QY 1 IleIleLeuValSerAspSPHisGluGlyAtqAlaAlaGlnLysArgLeuGluThr 20
|||
Db 748 ATCATCTCTGCTGCTACGACGACGACGACGAGCGCGCGCGCTCAGAAACGCTGGAGAGC 807
|||

QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
|||
Db 808 CTCTCTGGAGGAGCGCTGAGTCCAGGCGAGAGAGGTCTCTCAGTTTGACCCAGGGACCAAG 867
|||

QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleIleLeuSer 60
|||
Db 868 AACGTACGCGCCCTGCTGATGGAGGCGAAGAGAGCTGGAGCGCCGGGTGCATCATCTTCT 927
|||

QY 61 AlaSerGluAspAspAlaAlaThrValTyrArgAlaAlaAlaMetLeuAsnMetThrGly 80
|||

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QY 41 ASNVAThRALaLeuLeuMetGluAAlaArgGluLeuGluAaArgValIleIleLeuSer 60
Db 868 AACGTACGCGCCTGCTGATGGAGGCGAAAGAGCTGGAGCGCGGTCTTCCTTTCT 927
QY 61 AlaserGluAspAspAlaAlaThrValTyrArgAlaAlaAlaMetLeuAsnMetThrGly 80

Db 928 GCCAGGAGGAGCTGCCACTGTATACCGCGAGCCGCGATGCTGAACATGACGCGG 987
Qy 81 SerGlyTyrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100
Db 988 TCCGGGTAGTGTGGCTGTGGCGAGCGGAGATCTCGGGGAACGCCCTCGCTACGCC 1047
Qy 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
Db 1048 CCAGAGCGGATCTCGGGCTGCAGCTCATCAAC 1080
RESULT 10
US-08-231-193A-21
; Sequence 21, Application US/08231193A
; Patent No. 5849895
; GENERAL INFORMATION:
; APPLICANT: Daggett, Lorrie P.
; APPLICANT: Ellis, Steven B.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lu, Chin-Chun
; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
; SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Brown, Martin, Haller & McClain
; STREET: 1660 Union Street
; CITY: San Diego
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92101-2926
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/231,193A
; FILING DATE: 20-APR-1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/052,459
; FILING DATE: 20-APR-1993
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6362-9383
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0999
; TELEFAX: 619-238-0062
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3211 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 262..3192
US-08-231-193A-21
Alignment Scores:
Pred. No.: 3 91e-64 Length: 3211
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 2 Gaps: 0

US-09-652-345-6 (1-111) x US-08-231-193A-21 (1-3211)
Qy 1 IleIleLeuValSerAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
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Db 748 ATCATCTGCTGTCAGCAGCACCCAGCGCGCGGCTCAGAAACGCTGGAGAGC 807
Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 808 CTGCTGGAGGAGCGTGTAGTCCAAAGGCAGAGAAGGTGCTGCAGTTTGACCCAGGACCAAG 867
Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleIleLeuSer 60
Db 868 AACGTGACGCCCTGCTGATGAGCGGAAGAGCTGGAGGCCCGGCTCATCTCCTTTCT 927
Qy 61 AlaSerGluAspAlaAlaThrValTyrArgAlaAlaMetLeuAsnMetThrGly 80
Db 928 GCCAGCGAGGAGATGCTGCCACTGTATACCGCGAGCGCGGATGCTGAACATGACGCGC 987
Qy 81 SerGlyTyrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100
Db 988 TCCGGGTAGTGTGGCTGTGGCGAGCGGAGATCTCGGGGAACGCCCTCGCTACGCC 1047
Qy 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
Db 1048 CCAGAGCGGATCTCGGGCTGCAGCTCATCAAC 1080
RESULT 11
US-08-486-273A-21
; Sequence 21, Application US/08486273A
; Patent No. 5985586
; GENERAL INFORMATION:
; APPLICANT: Daggett, Lorrie P.
; APPLICANT: Ellis, Steven B.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lu, Chin-Chun
; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, DNA
; SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Brown, Martin, Haller & McClain
; STREET: 1660 Union Street
; CITY: San Diego
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92101-2926
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,273A
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/231,193
; FILING DATE: 20-APR-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6362-9383B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0999
; TELEFAX: 619-238-0062
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3211 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 262..3192
US-08-486-273A-21

Alignment Scores:
 Pred. No.: 3,91e-64 Length: 3211
 Score: 538.00 Matches: 109
 Percent Similarity: 100.00% Conservative: 2
 Best Local Similarity: 98.20% Mismatches: 0
 Query Match: 99.08% Indels: 0
 DB: 2 Gaps: 0

US-09-652-345-6 (1-111) x US-08-486-273A-21 (1-3211)

QY 1 IlelleLeuValSerAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
 Db 748 ATCATCTGCTGTGTCAGGACGACGAGCGCGGCTCAGAACGCTGGAGAGC 807
 QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
 Db 808 CTGCTGGAGGAGCGTGTGCTCCAGGACGAGAGGTCTGCAGTTTGACCCAGGACCAAG 867
 QY 41 AsnValThrAlaLeuMetGluAlaArgGluLeuGluAlaArgValIlelleLeuSer 60
 Db 868 AACGTGACGCGCTGTGATGAGCGGAAAGAGCTGGAGCGCGGCTCATCTCTTTCT 927
 QY 61 AlaSerGluAspAspAlaAlaThrValTyrArgAlaAlaAlaMetLeuAsnMetThrGly 80
 Db 928 GCCAGGAGGAGGATGCTGCCACTGTATACCGCGAGCGCGATGCTGAAACATGACGGC 987
 QY 81 SerGlyTyrValTrpLeuValGluArgGluLysSerGlyAsnAlaLeuArgTyrAla 100
 Db 988 TCCGGGTACGTGTGCTGTGCGGAGCGGAGATCTCGGGGAACGCCCTGCGCTACGCC 1047
 QY 101 ProAspGlyIlelleGlyLeuGlnLeuIleAsn 111
 Db 1048 CCAGAGCGCATCTCGGGCTGCAGCTCATCAAC 1080

RESULT 12

US-08-480-474-21

; Sequence 21, Application US/08480474

; Patent No. 6033865

; GENERAL INFORMATION:

; APPLICANT: Daggett, Lorrie P.

; APPLICANT: Ellis, Steven B.

; APPLICANT: Liaw, Chen W.

; APPLICANT: Lu, Chin-Chun

; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, DNA ENCODING

; NUMBER OF SEQUENCES: 54

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Brown, Martin, Hallier & McClain

; STREET: 1660 Union Street

; CITY: San Diego

; STATE: CA

; COUNTRY: U.S.A.

; ZIP: 92101-2926

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/480,474

; FILING DATE: 06-JUN-1995

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: Seidman, Stephanie

; REGISTRATION NUMBER: 33,779

; REFERENCE/DOCKET NUMBER: 6362-9382B

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 619-238-0999

; TELEFAX: 619-238-0062

; INFORMATION FOR SEQ ID NO: 21:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3211 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: both
 ; TOPOLOGY: Both
 ; MOLECULE TYPE: cDNA
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 262...3192
 ; US-08-480-474-21

Alignment Scores:

Pred. No.: 3,91e-64 Length: 3211
 Score: 538.00 Matches: 109
 Percent Similarity: 100.00% Conservative: 2
 Best Local Similarity: 98.20% Mismatches: 0
 Query Match: 99.08% Indels: 0
 DB: 3 Gaps: 0

US-09-652-345-6 (1-111) x US-08-480-474-21 (1-3211)

QY 1 IlelleLeuValSerAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
 Db 748 ATCATCTGCTGTGTCAGGACGACGAGCGCGGCTCAGAACGCTGGAGAGC 807
 QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
 Db 808 CTGCTGGAGGAGCGTGTGCTCCAGGACGAGAGGTCTGCAGTTTGACCCAGGACCAAG 867
 QY 41 AsnValThrAlaLeuMetGluAlaArgGluLeuGluAlaArgValIlelleLeuSer 60
 Db 868 AACGTGACGCGCTGTGATGAGCGGAAAGAGCTGGAGCGCGGCTCATCTCTTTCT 927
 QY 61 AlaSerGluAspAspAlaAlaThrValTyrArgAlaAlaAlaMetLeuAsnMetThrGly 80
 Db 928 GCCAGGAGGAGGATGCTGCCACTGTATACCGCGAGCGCGATGCTGAAACATGACGGC 987
 QY 81 SerGlyTyrValTrpLeuValGluArgGluLysSerGlyAsnAlaLeuArgTyrAla 100
 Db 988 TCCGGGTACGTGTGCTGTGCGGAGCGGAGATCTCGGGGAACGCCCTGCGCTACGCC 1047
 QY 101 ProAspGlyIlelleGlyLeuGlnLeuIleAsn 111
 Db 1048 CCAGAGCGCATCTCGGGCTGCAGCTCATCAAC 1080

RESULT 13

US-08-940-086A-21

; Sequence 21, Application US/08940086A

; Patent No. 6111091

; GENERAL INFORMATION:

; APPLICANT: Daggett, Lorrie P.

; APPLICANT: Ellis, Steven B.

; APPLICANT: Liaw, Chen W.

; APPLICANT: Lu, Chin-Chun

; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR

; NUMBER OF SEQUENCES: 63

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Heller Ehrman White & McAuliffe

; STREET: 4250 Executive Square, 7th Floor

; CITY: La Jolla

; STATE: CA

; COUNTRY: USA

; ZIP: 92037

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/940,086A

; FILING DATE: 29-SEPT-97

; CLASSIFICATION: 536

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/231,193

; FILING DATE: 20-APR-1994

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/052,449
; FILING DATE: 20-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 24735-9383C
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 450-8400
; TELEFAX: (619) 450-8499
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3211 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 262..3192
; US-08-940-086A-21

Alignment Scores:
Pred. No.: 3 91e-64 Length: 3211
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 3 Gaps: 0

US-09-652-345-6 (1-111) x US-08-940-086A-21 (1-3211)

QY 1 llelleLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
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QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 808 CTGCTGGAGAGCGTGTGCTCAAGGAGAGAGAGTGTGCTGAGTTGACCCAGGACCAAG 867

QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60
Db 868 AAGTGACGGCCCTGCTGATGAGGAGGAGAGAGCTGGAGGCGCGGCTCATCTTTCT 927

QY 61 AlaSerGluAspAlaAlaThrValTyrArgAlaAlaMetLeuAsnMetThrGly 80
Db 928 GCCAGCGAGAGATCTGCCACTGTATACCGCAGCGAGCTGGAACATGACGGGC 987

QY 81 SerGlyTyrValrLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100
Db 988 TCCGGTACGTGTGCTGTGCGGAGCGGAGATCTCGGGGAACGCCCTGCGCTACGCC 1047

QY 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
Db 1048 CCAGACGGCATCTCTCGGCGTGCAGCTCATCAAC 1080

RESULT 14
; Sequence 21, Application US/08940035A
; Patent No. 6316611
; GENERAL INFORMATION:
; APPLICANT: Daggett, Lorrie P.
; APPLICANT: Ellis, Steven B.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lu, Chin-Chun
; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
; TITLE OF INVENTION: SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Heller Ehrman White & McAuliffe
; STREET: 4250 Executive Square, 7th Floor
; CITY: La Jolla
; STATE: CA

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; COUNTRY: U.S.A.
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/940,035A
; FILING DATE: 29-SEPT-97
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/231,193
; FILING DATE: 20-APR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/052,449
; FILING DATE: 20-APR-1993
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6362-9383E
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0999
; TELEFAX: 619-238-0062
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3211 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 262..3192
; US-08-940-035A-21

Alignment Scores:
Pred. No.: 3 91e-64 Length: 3211
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Query Match: 99.08% Indels: 0
DB: 4 Gaps: 0

US-09-652-345-6 (1-111) x US-08-940-035A-21 (1-3211)

QY 1 llelleLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
Db 748 ATCATCTCTGCTGTCAGCAGCAGCAGGCGCGCGCTCAGAAACGCTGGAGACG 807

QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 808 CTGCTGGAGAGCGTGTGCTCAAGGAGAGAGTGTGCTGAGTTGACCCAGGACCAAG 867

QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60
Db 868 AACGTGACGGCCCTGCTGATGAGGAGGAGAGAGCTGGAGGCGCGGCTCATCTTTCT 927

QY 61 AlaSerGluAspAlaAlaThrValTyrArgAlaAlaMetLeuAsnMetThrGly 80
Db 928 GCCAGCGAGAGATCTGCCACTGTATACCGCAGCGAGCTGGAACATGACGGGC 987

QY 81 SerGlyTyrValrLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100
Db 988 TCCGGTACGTGTGCTGTGCGGAGCGGAGATCTCGGGGAACGCCCTGCGCTACGCC 1047

QY 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
Db 1048 CCAGACGGCATCTCTCGGCGTGCAGCTCATCAAC 1080

RESULT 15
; Sequence 21, Application US/08935105A

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Patent No. 6376660
GENERAL INFORMATION:
APPLICANT: Daggett, Lorrie P.
APPLICANT: Lu, Chin-Chun
TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR
TITLE OF INVENTION: SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Heller Ehrman White & McAuliffe
STREET: 4250 Executive Square, 7th Floor
CITY: La Jolla
STATE: CA
COUNTRY: U.S.A.
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/935,105A
FILING DATE: 29-SEPT-97
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/231,193
FILING DATE: 20-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/052,449
FILING DATE: 20-APR-1993
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Seigman, Stephanie
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 6362-9383D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-238-0999
TELEFAX: 619-238-0062
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 3211 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 262..3192
US-09-652-345-6 (1-111) x US-08-935-105A-21 (1-3211)

Alignment Scores:
Pred. No.: 3,91e-64 Length: 3211
Score: 538.00 Matches: 109
Percent Similarity: 100.00% Conservative: 2
Best Local Similarity: 98.20% Mismatches: 0
Every Match: 99.08% Indels: 0
Gaps: 4
US-09-652-345-6 (1-111) x US-08-935-105A-21 (1-3211)
Qy 1 IlelleLeuLeuValSerAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20
Db 748 ATCATCTGCTGCTCAGGAGCACCAGCGCGCGGCTCAGAAACGCTGGAGAG 807
Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40
Db 808 CTGCTGGAGGAGCGTGAGTCCAAAGCAGAGAGGTGCTGCAGTTTACCCAGGAGCAAG 867
Qy 41 AsnValThrAlaLeuMetGluAlaArgGluLeuGluAlaArgValIleIleLeuSer 60
Db 868 AACGTGACGGCCCTGCTGATGAGCGAAAGAGCTGGAGCGCGGCTCATCTCTTCT 927
Qy 61 AlaSerGluAspAspAlaAlaThrValTrArgAlaAlaAlaMetLeuAsnMetThrGly 80
Db 928 GCCAGGAGGACGATGCTGCCACTGTATACCGCGGAGCGCGGATGCTGAACATGACGGGC 987

Qy 81 SerGlyTyrValTrpLeuValGlyGluArgGluLeuSerGlyAsnAlaLeuArgTyrAla 100
Db 988 TCCGGGTACGTGTGGTGGTGGCGGAGATCTCGGGGAACGCCCTGCGCTAGGCC 1047
Qy 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111
Db 1048 CCAGACGGCATCTCTGGGCTGCAGCTCATCAAC 1080
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